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L3	354	715/526.ccls. & @ad<"20000808"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/25 14:03
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L5	50	("20020167534"|"20030006995"|"5060135"|"5250929"|"5384863"|"5444779"|"5526443"|"5740285"|"5870767"|"5901224"|"5960448"|"5960448"|"5999173"|"6073148"|"6230169"|"6256648"|"6271840"|"6272484"|"6310633"|"6321648"|"6353448"|"6356908"|"6369811"|"6407747"|"6613840"|"D453938"|"D454883").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/25 14:03
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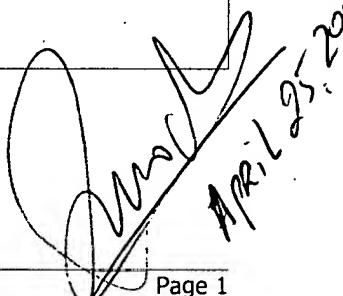
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L10	0	("6&(display$3near3document)"). PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/25 14:03
L11	2	("7069506").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/25 14:03
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L14	0	("activeXnear2control$3").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/25 14:03
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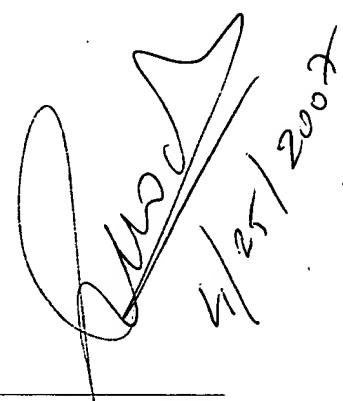
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1 Managing change on the web   ☐

Luis Francisco-Revilla, Frank Shipman, Richard Furuta, Unmil Karadkar, Avital Arora
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**
Publisher: ACM Press

Full text available: 📄 pdf(274.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

Increasingly, digital libraries are being defined that collect pointers to World-Wide Web based resources rather than hold the resources themselves. Maintaining these collections is challenging due to distributed document ownership and high fluidity. Typically a collections maintainer has to assess the relevance of changes with little system aid. In this paper, we describe the Waldens Paths Path Manager, which assists a maintainer in discovering when relevant changes occur to linked resour ...

Keywords: Walden's path, path maintenance

2 Intel MMX for multimedia PCs   ☐

Alex Peleg, Sam Wilkie, Uri Weiser
January 1997 **Communications of the ACM**, Volume 40 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(3.15 MB)   Additional Information: full citation, references, citings, index terms, review

3 Attacks and cryptanalysis: Puppetnets: misusing web browsers as a distributed attack ☐
infrastructure

V. T. Lam, S. Antonatos, P. Akritidis, K. G. Anagnostakis
October 2006 **Proceedings of the 13th ACM conference on Computer and communications security CCS '06**
Publisher: ACM Press

Full text available: 📄 pdf(871.35 KB)   Additional Information: full citation, abstract, references, index terms

Most of the recent work on Web security focuses on preventing attacks that *directly* harm the browser's host machine and user. In this paper we attempt to quantify the threat of browsers being *indirectly* misused for attacking third parties. Specifically, we look at how the existing Web infrastructure (e.g., the languages, protocols, and security policies) can

be exploited by malicious Web sites to remotely instruct browsers to orchestrate actions including denial of service attacks, ...

Keywords: distributed attacks, malicious software, web security

4   Privacy and authentication: Doppelganger: Better browser privacy without the bother   ▭

Umesh Shankar, Chris Karlof

October 2006 **Proceedings of the 13th ACM conference on Computer and communications security CCS '06**

Publisher: ACM Press

Full text available: 🔼 pdf(985.19 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We introduce Doppelganger, a novel system for creating and enforcing fine-grained, privacy preserving browser cookie policies with low manual effort. Browser cookies pose privacy risks, since they can be used to track users' actions in detail, but some cookies also enable useful functionality, like personalization features. Web browsers currently lack an effective cookie management mechanism. Users must choose between two unpalatable options: a permissive, privacy-compromising policy for every s ...

Keywords: cookies, usable security, web privacy

5   Privacy in browser-based attribute exchange   ▭

Birgit Pfitzmann, Michael Waidner

November 2002 **Proceedings of the 2002 ACM workshop on Privacy in the Electronic Society WPES '02**

Publisher: ACM Press

Full text available: 🔼 pdf(168.95 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Browser-based attribute-exchange protocols enable users of normal web browsers to conveniently send attributes, such as authentication or demographic data, to web sites. Such protocols might become very common and almost mandatory in general consumer scenarios over the next few years. We derive the privacy requirements on such protocols from general privacy principles and study their consequences for the protocol design. We also survey to what extent proposals like Microsoft's Passport, IBM's e- ...

Keywords: BBAE, Liberty, Passport, SAML, Shibboleth, attribute-exchange, e-Community Single Signon, identity management, privacy, roles, security, single signon, traffic data, wallet, web browser

6   The effects of information scent on visual search in the hyperbolic tree browser   ▭

Peter Pirolli, Stuart K. Card, Mija M. Van Der Wege

March 2003 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: 🔼 pdf(2.37 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The Hyperbolic Tree is a focus + context information visualization that has been developed to amplify users' ability to navigate large tree-structured information systems. Information scent is a theoretical construct that captures one kind of interaction between task and display. Information scent is provided by task-relevant display cues, such as node labels on a tree that influence a user's visual search behavior and navigation decisions. An empirical Accuracy of Scent (AOS) score was develope ...

Keywords: Hyperbolic Tree, Information visualization, fisheye-lens visual search, focus+context, information foraging, information scent, interactive computer graphics

7   RSVP Browser: Web Browsing on Small Screen Devices
O. de Bruijn, R. Spence, M. Y. Chong
January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 4
Publisher: Springer-Verlag
Full text available: pdf(171.91 KB)   Additional Information: full citation, abstract, citings, index terms

In this paper, we illustrate the use of space-time trade-offs for information presentation on small screens. We propose the use of Rapid Serial Visual Presentation (RSVP) to provide a rich set of navigational information for Web browsing. The principle of RSVP browsing is applied to the development of a Web browser for small screen devices, the RSVP browser. The results of an experiment in which Web browsing with the RSVP browser is compared with that of a typical WAP browser suggests that RSVP ...

Keywords: Mobile Internet, Mobile communication, Navigation, Rapid serial visual presentation, Small screen devices, WAP, Web browsing

8   Adapting the web interface: an adaptive web browser
K. Henricksen, J. Indulska
January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface AUIC '01**, Volume 23 Issue 5
Publisher: IEEE Computer Society, IEEE Computer Society Press
Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, citings
Publisher Site

The growing number of mobile computing devices with diverse characteristics creates a requirement for seamless (device independent) access to computing resources of distributed systems. One of the most common applications in distributed systems is the Web browser, which is not only used to access resources on the Internet but also as an interface to many Information Systems applications. In this paper, we address types of adaptation that can be applied to a Web browser in response to diverse con ...

9   Browser-Soar: a computational model of a highly interactive task
Virginia A. Peck, Bonnie E. John
June 1992 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '92**
Publisher: ACM Press
Full text available: pdf(843.38 KB)   Additional Information: full citation, abstract, references, citings, index terms

Browser-Soar models the perceptual, cognitive, and motor operators of a user searching for information in an on-line help browser. The model accounts for 90% of the browsing behavior observed in ten episodes. This result suggests that much of browsing behavior is a routine cognitive task, describably by GOMS, and extends the boundary of tasks to which GOMS applies to include highly interactive tasks. Further, it also suggests that GOMS analyses can be used to evaluate text-editors and other ...

Keywords: GOMS, Soar, browsing, cognitive models

10   Hypermedia pplication design: Journey to the past: proposal of a framework for past web browser

Adam Jatowt, Yukiko Kawai, Satoshi Nakamura, Yutaka Kidawara, Katsumi Tanaka
August 2006 **Proceedings of the seventeenth conference on Hypertext and**
hypermedia HYPERTEXT '06
Publisher: ACM Press
Full text available: pdf(459.08 KB)   Additional Information: full citation, abstract, references, index terms

> While the Internet community recognized early on the need to store and preserve past
> content of the Web for future use, the tools developed so far for retrieving information
> from Web archives are still difficult to use and far less efficient than those developed for
> the "live Web." We expect that future information retrieval systems will utilize both the
> "live" and "past Web" and have thus developed a general framework for a past Web
> browser. A browser built using this framework would be a clien ...
>
> **Keywords**: past web, past web browser, web archive

11 Improved search ranking: Protecting browser state from web privacy attacks
Collin Jackson, Andrew Bortz, Dan Boneh, John C. Mitchell
May 2006 **Proceedings of the 15th international conference on World Wide Web**
WWW '06
Publisher: ACM Press
Full text available: pdf(136.29 KB)   Additional Information: full citation, abstract, references, index terms

> Through a variety of means, including a range of browser cache methods and inspecting
> the color of a visited hyperlink, client-side browser state can be exploited to track users
> against their wishes. This tracking is possible because persistent, client-side browser state
> is not properly partitioned on per-site basis in current browsers. We address this problem
> by refining the general notion of a "same-origin" policy and implementing two browser
> extensions that enforce this policy on the browser ...
>
> **Keywords**: phishing, privacy, web browser design, web spoofing

12 Security, privacy & ethics: Protecting browser state from web privacy attacks
Collin Jackson, Andrew Bortz, Dan Boneh, John C. Mitchell
May 2006 **Proceedings of the 15th international conference on World Wide Web**
WWW '06
Publisher: ACM Press
Full text available: pdf(136.29 KB)   Additional Information: full citation, abstract, references, index terms

> Through a variety of means, including a range of browser cache methods and inspecting
> the color of a visited hyperlink, client-side browser state can be exploited to track users
> against their wishes. This tracking is possible because persistent, client-side browser state
> is not properly partitioned on per-site basis in current browsers. We address this problem
> by refining the general notion of a "same-origin" policy and implementing two browser
> extensions that enforce this policy on the browser ...
>
> **Keywords**: phishing, privacy, web browser design, web spoofing

13 Browsers: Off the beaten tracks: exploring three aspects of web navigation
Harald Weinreich, Hartmut Obendorf, Eelco Herder, Matthias Mayer
May 2006 **Proceedings of the 15th international conference on World Wide Web**
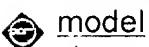**WWW '06**
Publisher: ACM Press
Full text available: pdf(440.42 KB)   Additional Information: full citation, abstract, references, index terms

> This paper presents results of a long-term client-side Web usage study, updating previous

studies that range in age from five to ten years. We focus on three aspects of Web navigation: changes in the distribution of navigation actions, speed of navigation and within-page navigation."Navigation actionsö corresponding to users' individual page requests are discussed by type. We reconfirm links to be the most important navigation element, while backtracking has lost more than half of its previ ...

Keywords: browser interfaces, clickstream study, hypertext, navigation, user modeling

14 Formal methods: Proving a WS-federation passive requestor profile with a browser model

Thomas Groβ, Birgit Pfitzmann, Ahmad-Reza Sadeghi
November 2005 **Proceedings of the 2005 workshop on Secure web services SWS '05**
Publisher: ACM Press

Full text available: pdf(415.13 KB)   Additional Information: full citation, abstract, references, citings, index terms

Web-based services are an important business area. For usability and cost-effectiveness these services require users to rely only on standard browsers. A representative class of such applications, currently in the focus of many industrial players, is Federated Identity Managent (FIM). In this context we are facing challenging probls: on the one hand, the security of the existing FIM protocols (including Microsoft Passport, OASIS SAML, and Liberty) is not yet based on rigorous proofs and has been ...

Keywords: WS-federation passive requestor profile, WSFPI, identity federation, security proof of protocols, single signon, web browser, web service security

15 Trusted paths for browsers

Zishuang (Eileen) Ye, Sean Smith, Denise Anthony
May 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 2
Publisher: ACM Press

Full text available: pdf(265.37 KB)   Additional Information: full citation, abstract, references, citings, index terms

Computer security protocols usually terminate in a computer; however, the human-based services which they support usually terminate in a human. The gap between the human and the computer creates potential for security problems. We examine this gap, as it is manifested in secure Web servers. Felten et al. demonstrated the potential, in 1996, for malicious servers to impersonate honest servers. In this paper, we show how malicious servers can still do this---and can also forge the existence of an ...

Keywords: HCISEC, Trust path, Web browser security

16 Security through the eyes of users: Hardening Web browsers against man-in-the-middle and eavesdropping attacks
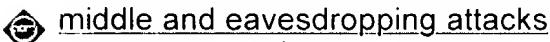
Haidong Xia, José Carlos Brustoloni
May 2005 **Proceedings of the 14th international conference on World Wide Web WWW '05**
Publisher: ACM Press

Full text available: pdf(770.11 KB)   Additional Information: full citation, abstract, references, index terms

Existing Web browsers handle security errors in a manner that often confuses users. In particular, when a user visits a secure site whose certificate the browser cannot verify, the browser typically allows the user to view and install the certificate and connect to the site

despite the verification failure. However, few users understand the risk of man-in-the-middle attacks and the principles behind certificate-based authentication. We propose context-sensitive certificate verification (CSCV), w ...

Keywords: HTTPS, SSL, Web browser, certificate, eavesdropping attack, just-in-time instruction, man-in-the-middle attack, password, safe staging, well-in-advance instruction

17 Breaking browsers: a survey
Jeffrey Putnam, Kaleb Albee
December 2006 **Journal of Computing Sciences in Colleges**, Volume 22 Issue 2
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(252.72 KB)   Additional Information: full citation, abstract, references, index terms

> Genetic programming can be used to explore browser vulnerabilities by generating HTML and over time learning what fragments of HTML crash browsers or cause them to run very slowly. A number of browsers have been evaluated with this technique and the results are reported.

18 Browser comparison
Ralph Krause
March 2002 **Linux Journal**, Volume 2002 Issue 95
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(14.66 KB)   Additional Information: full citation, abstract, index terms

> A look at the strengths and weaknesses of seven web browsers.

19 Browsers with changing parts: a catalog explorer for Philip Glass' website
Harry Hochheiser
August 2000 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques DIS '00**
Publisher: ACM Press
Full text available: pdf(446.89 KB)   Additional Information: full citation, abstract, references, index terms

> The development of navigational tools for a web site devoted to a catalog of musical compositions offers a variety of design challenges. A combination of techniques developed from information visualization research - including starfield displays, dynamic queries, and zoomable user interfaces (ZUIs) - was used to construct a prototype browser for possible use in a web site dedicated to the work of Philip Glass. After a discussion of the goals and potential users of the site, this paper descr ...

> **Keywords**: biography, catalog browsing, interactive visualization, music, zoomable user interfaces

20 Evolving the browser towards a standard user interface architecture
Michael J. Rees
January 2002 **Australian Computer Science Communications , Proceedings of the Third Australasian conference on User interfaces - Volume 7 AUIC '02**, Volume 24 Issue 4
Publisher: Australian Computer Society, Inc., IEEE Computer Society Press
Full text available: pdf(857.16 KB)   Additional Information: full citation, abstract, references, index terms

> If current trends continue, it is likely that the web browser will become the only widely used user interface. Web applications will become the predominant software. Should this happen, user interface design, implementation and evaluation skills can become more

focussed and effective. Some of the benefits current browser user interfaces provide are discussed in the context of web application tools produced by the author and supported by examples. The software architecture of the Web brings speci ...

Keywords: XML, browser user interface, user interface markup language, user interface standards

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